

## M 5.1, Iran-Iraq border region

Origin Time: 2023-11-10 15:36:29 UTC (Fri 19:06:29 local)

Location: 32.7835° N 47.5950° E Depth: 10.0 km

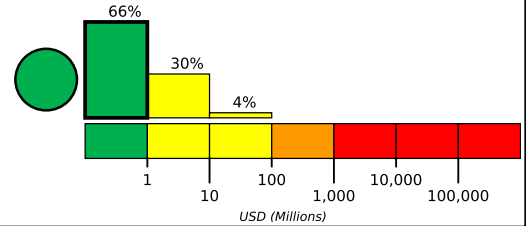
Created: 3 weeks, 3 days after earthquake

## Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

## Estimated Economic Losses

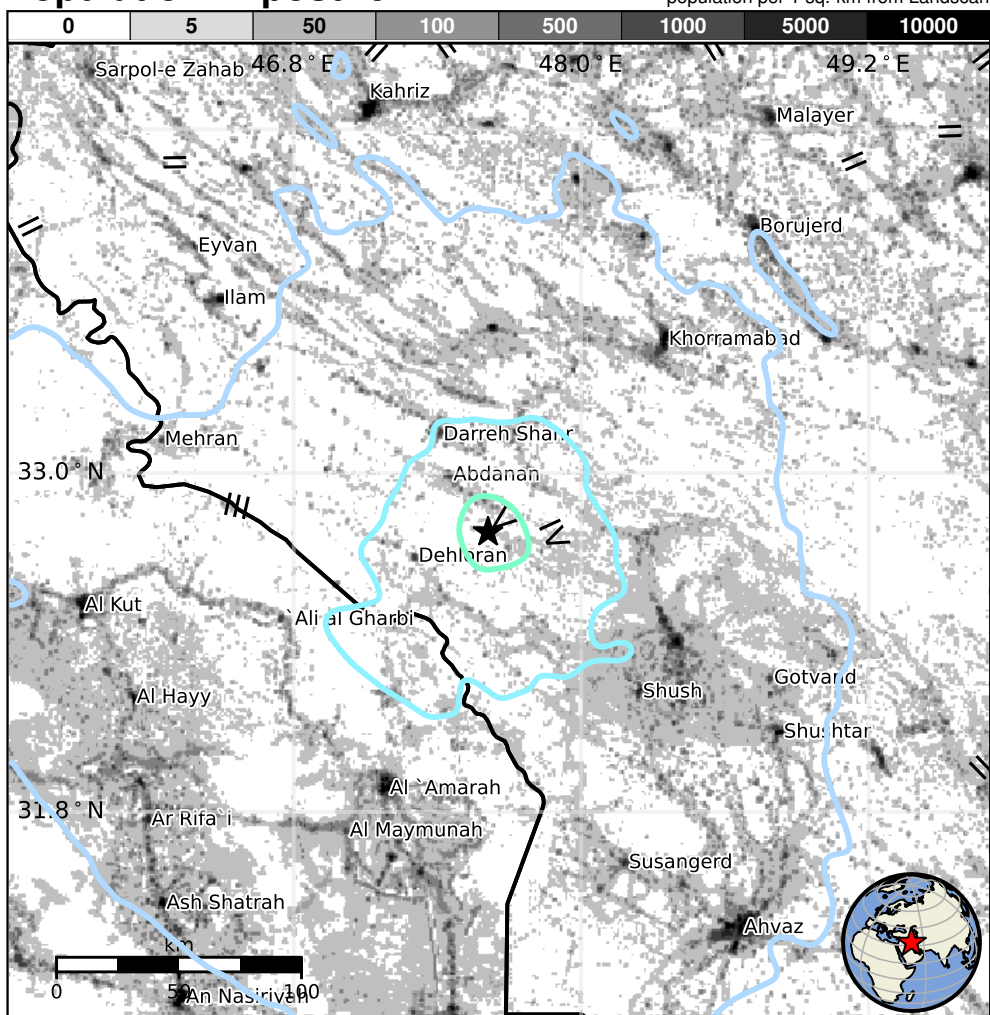


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	13,841k	269k	11k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



## Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are adobe block and low-rise nonductile concrete frame with in-fill construction.

## Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2003-06-24	176	4.6	V(18k)	1
2005-05-03	139	4.9	VI(36k)	4
1962-09-01	370	6.9	IX(4k)	12k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

## Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Dehloran	46k
IV	Abadan	19k
IV	Poldokhtar	<1k
IV	Darreh Shahr	25k
III	Andimeshk	<1k
III	Kuhdasht	100k
III	Khorramabad	330k
III	Ahvaz	841k
II	Kermanshah	621k
II	An Nasiriyah	400k
II	Arak	504k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000la3j#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000la3j